

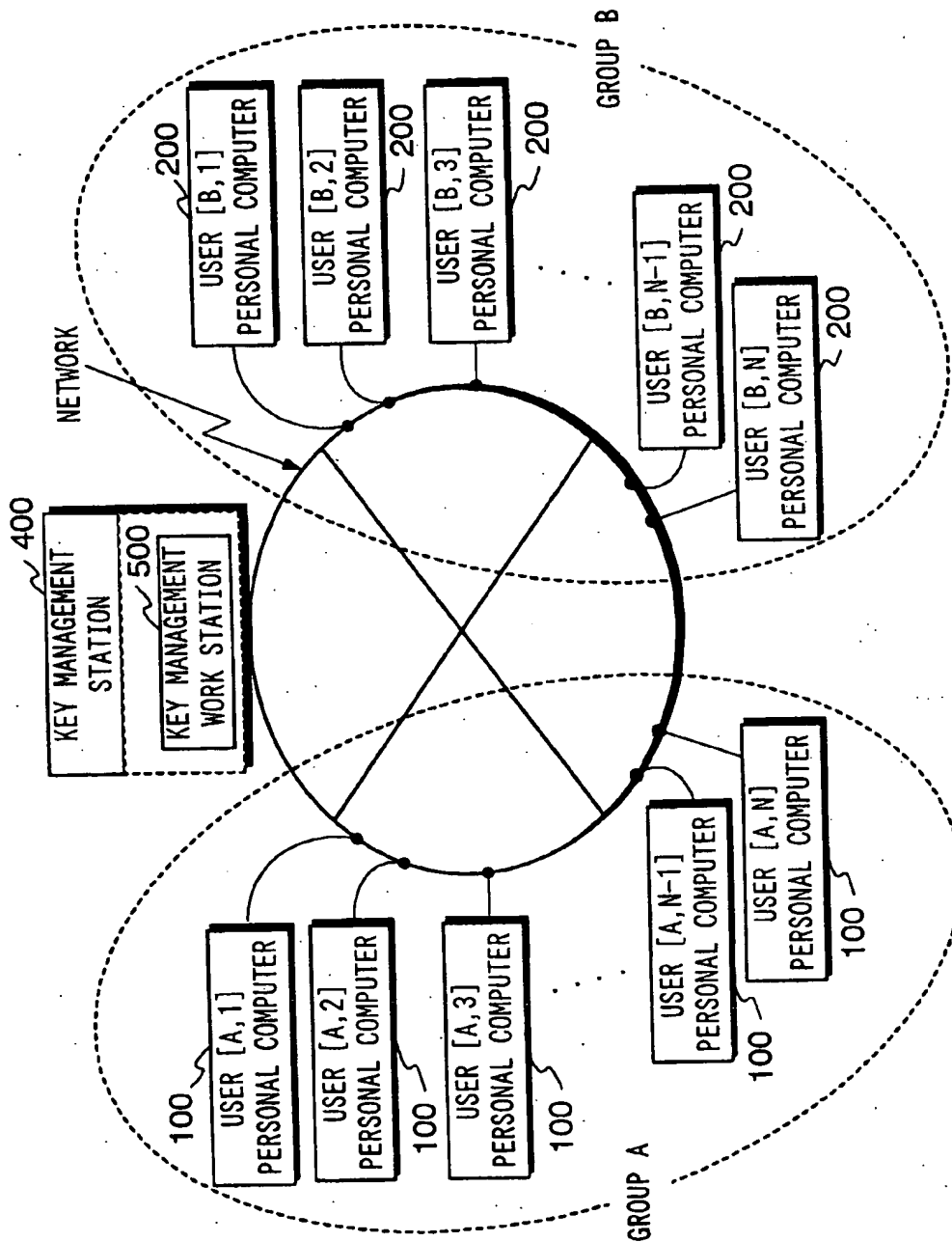


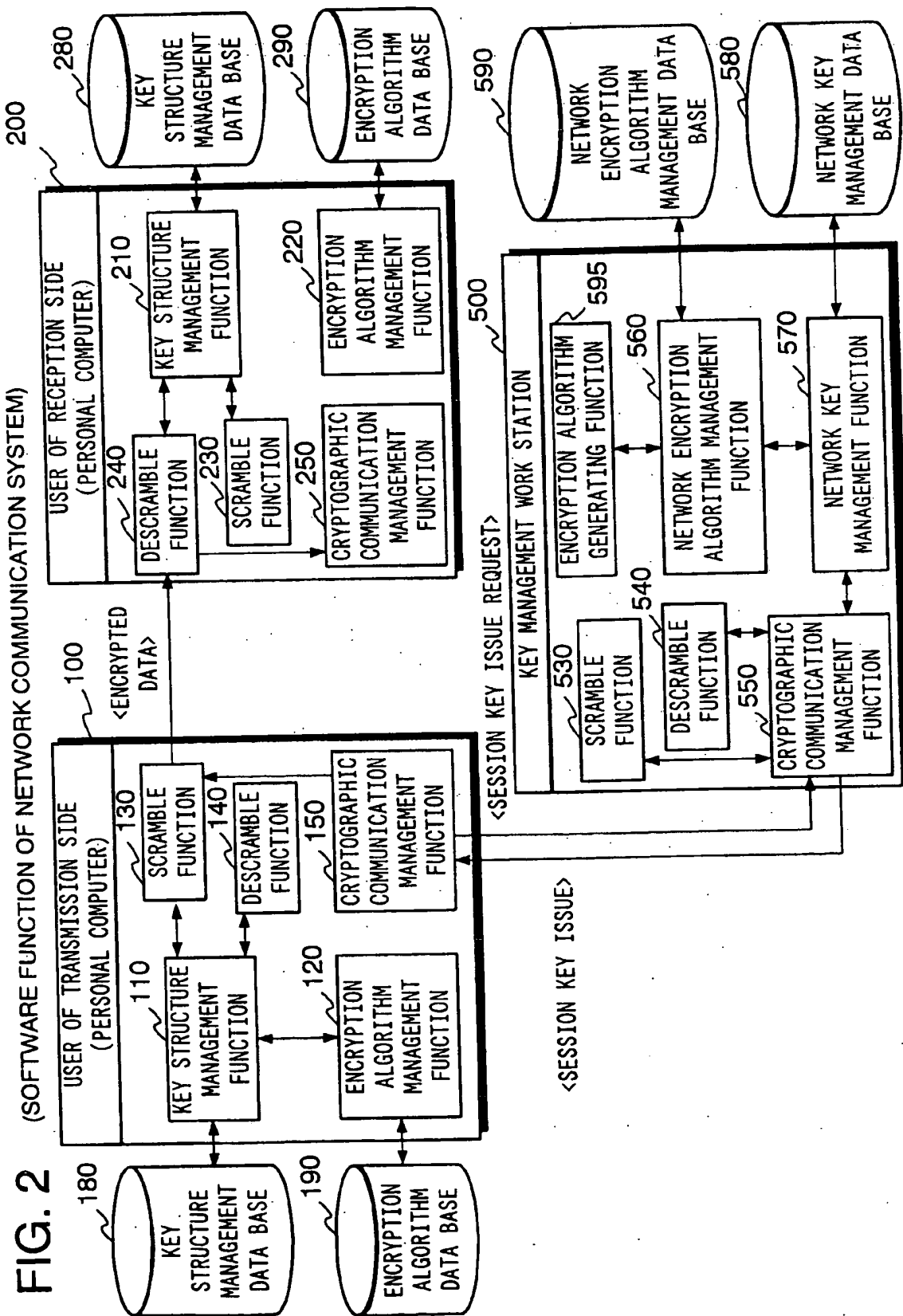
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FIG. 1

(NETWORK COMMUNICATION SYSTEM)







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FIG. 3A

NETWORK ENCRYPTION ALGORITHM MANAGEMENT DATA BASE

| USER ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | UPDATING DATE |
|------------------------------|---------------------------|------------------------------|---------------|
| KEY MANAGEMENT STATION ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | UPDATING DATE |

FIG. 3B

NETWORK KEY MANAGEMENT DATA BASE

| USER ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | KEY INFORMATION | UPDATING DATE |
|------------------------------|---------------------------|------------------------------|-----------------|---------------|
| KEY MANAGEMENT STATION ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | KEY INFORMATION | UPDATING DATE |



FIG. 4A

ENCIPHERMENT ALGORITHM MANAGEMENT DATA BASE

| ENCIPHERMENT ALGORITHM NAME | ENCIPHERMENT ALGORITHM VERSION | UPDATING DATE |
|-----------------------------|--------------------------------|---------------|
|-----------------------------|--------------------------------|---------------|

FIG. 4B

KEY STRUCTURE MANAGEMENT DATA BASE

| ENCIPHERMENT ALGORITHM NAME | ENCIPHERMENT ALGORITHM VERSION | USER KEY INFORMATION | UPDATING DATE |
|-----------------------------|--------------------------------|---|---------------|
| ENCIPHERMENT ALGORITHM NAME | ENCIPHERMENT ALGORITHM VERSION | KEY INFORMATION OF KEY MANAGEMENT STATION | UPDATING DATE |



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FIG. 5
(OUTLINE OF ENCRYPTION ALGORITHM CONVERSION)

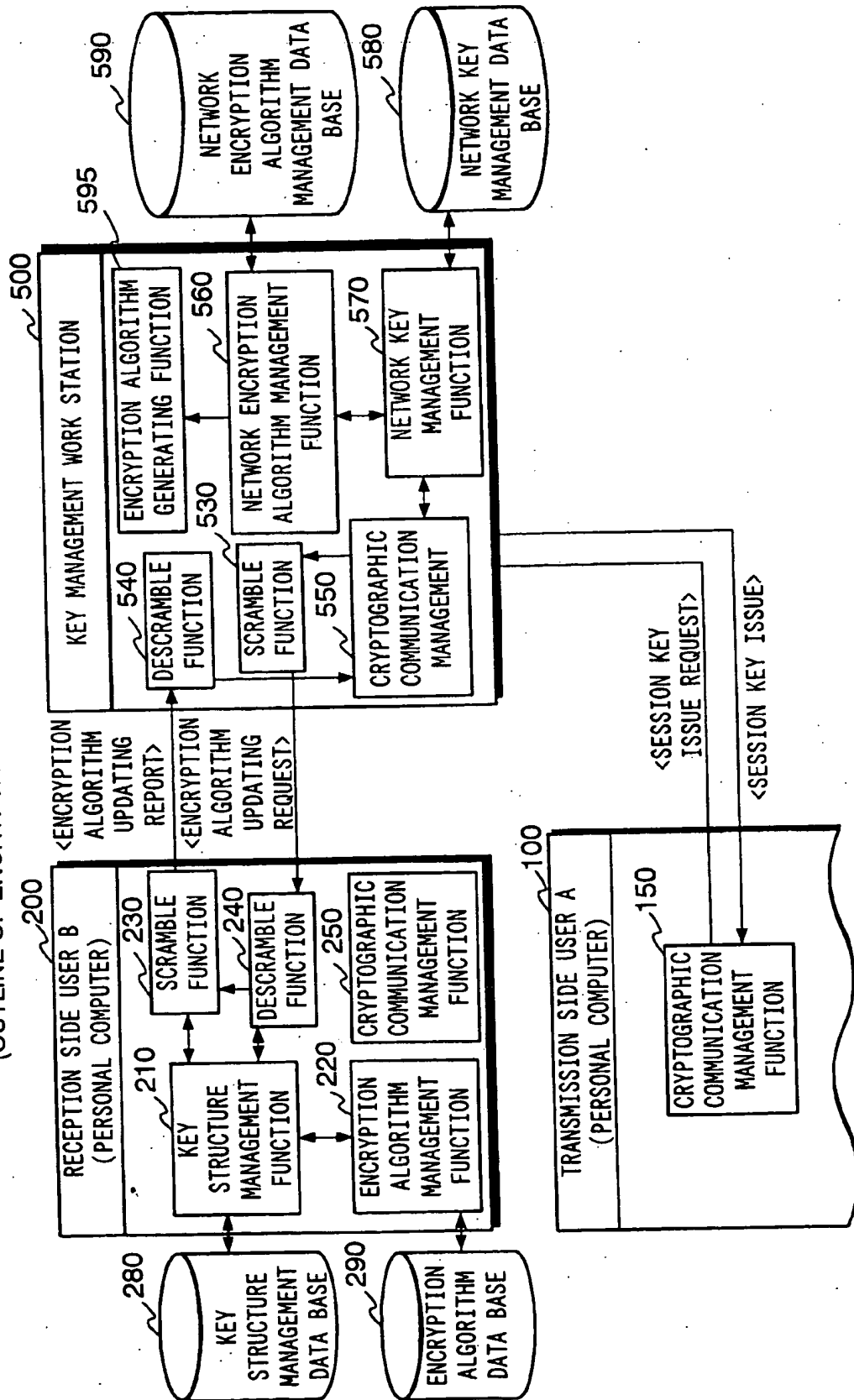


FIG. 6

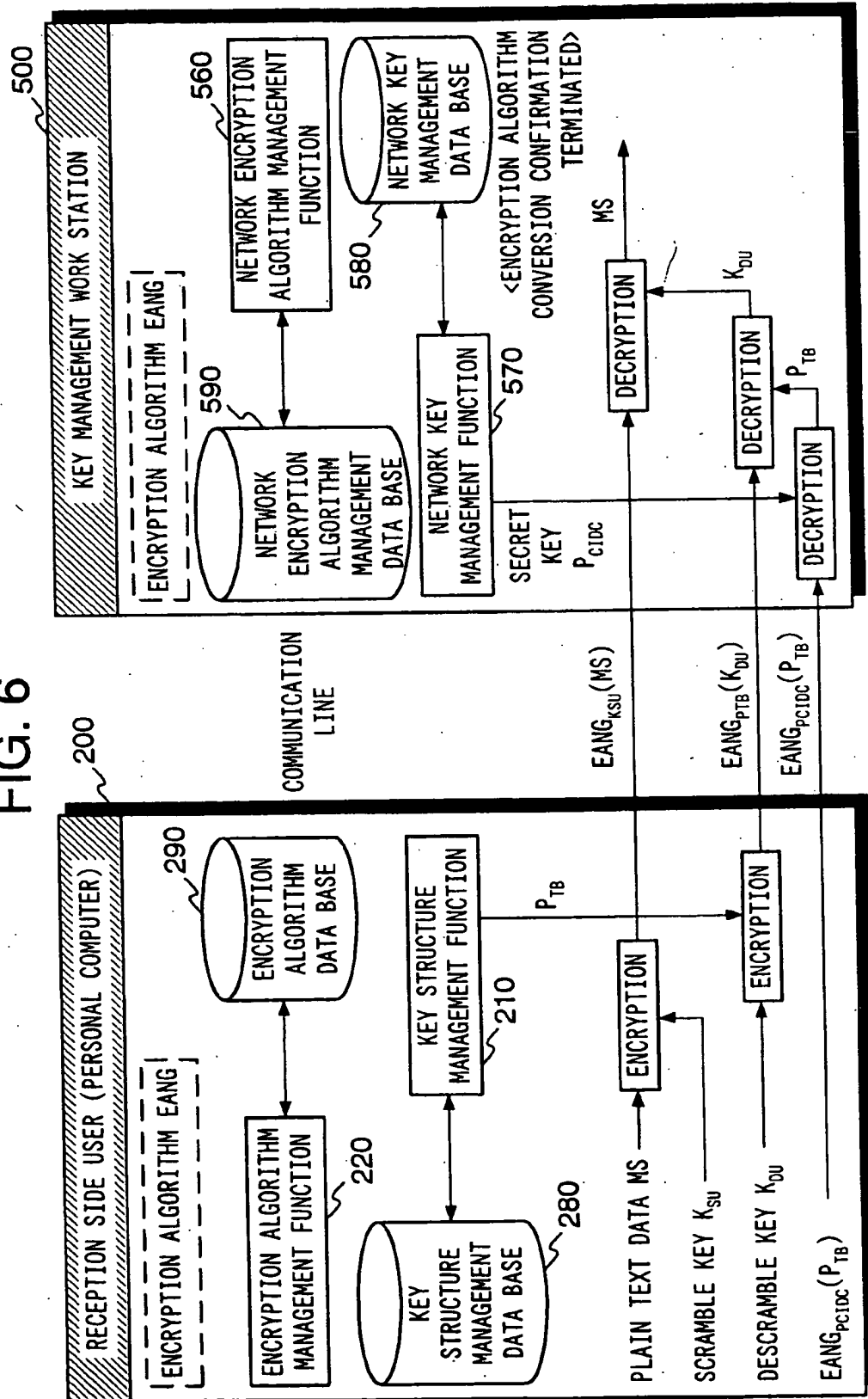


FIG. 7

(CRYPTOGRAPHIC COMMUNICATION BY COMMON KEY CIPHER)

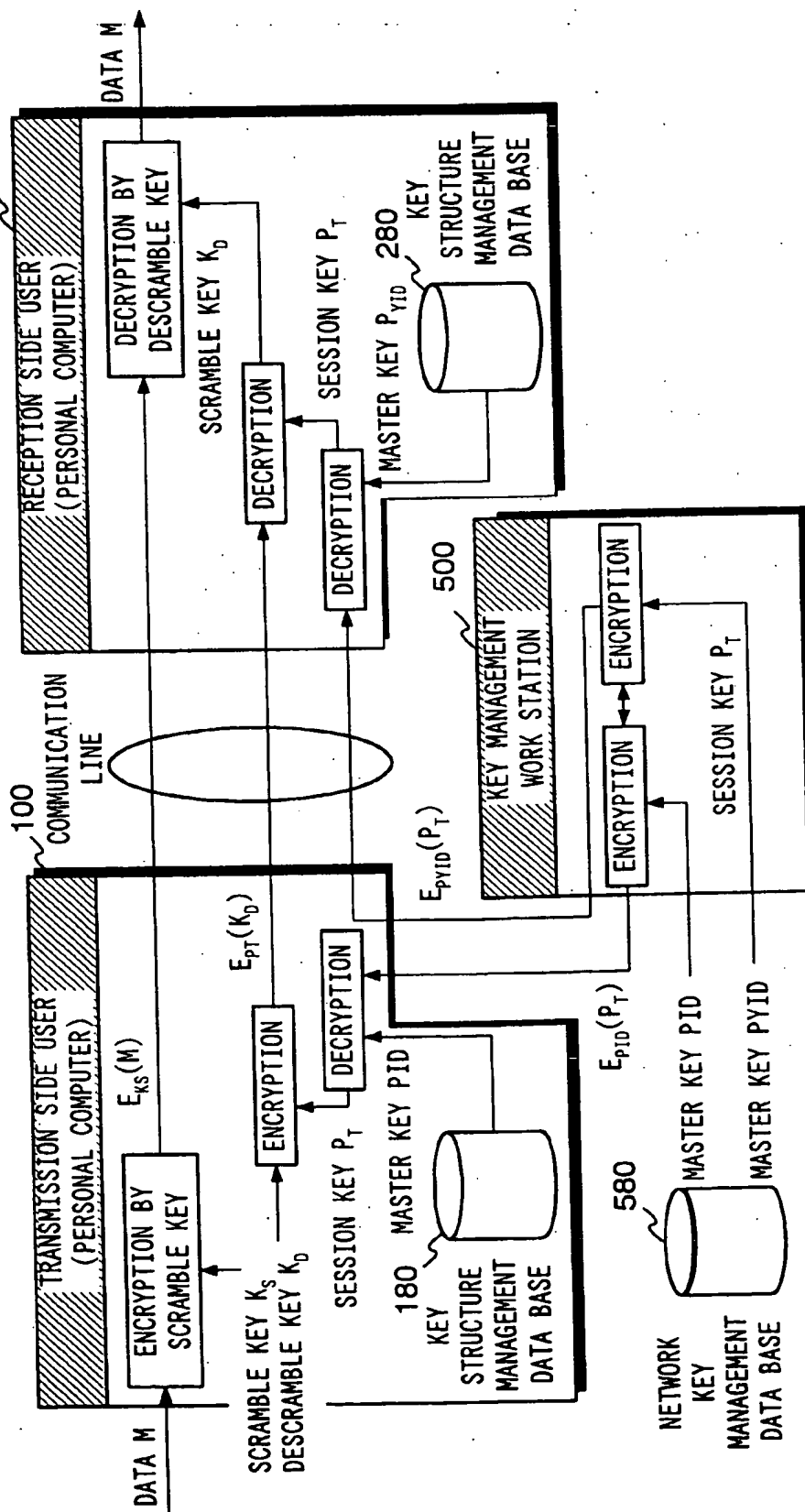
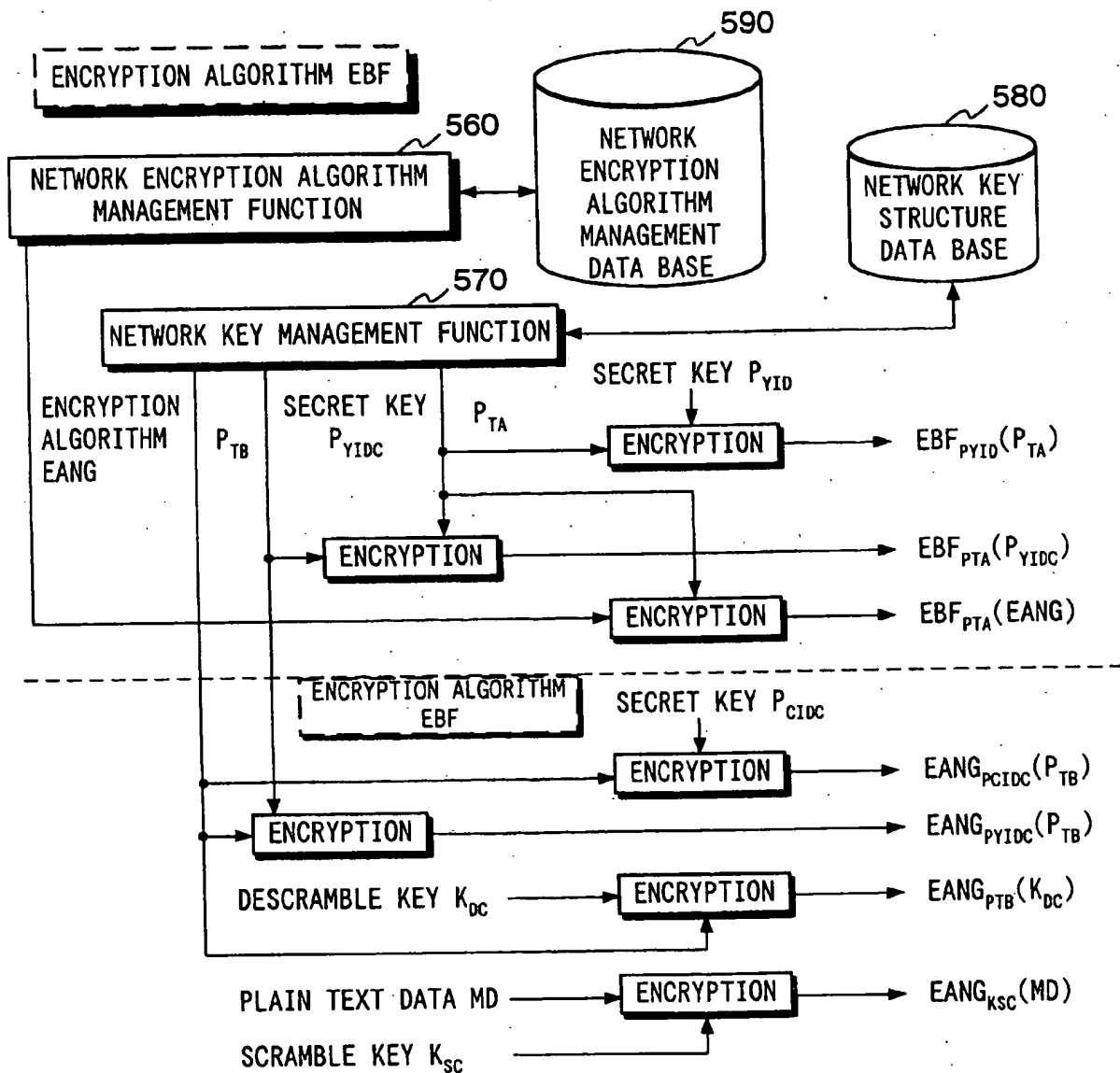


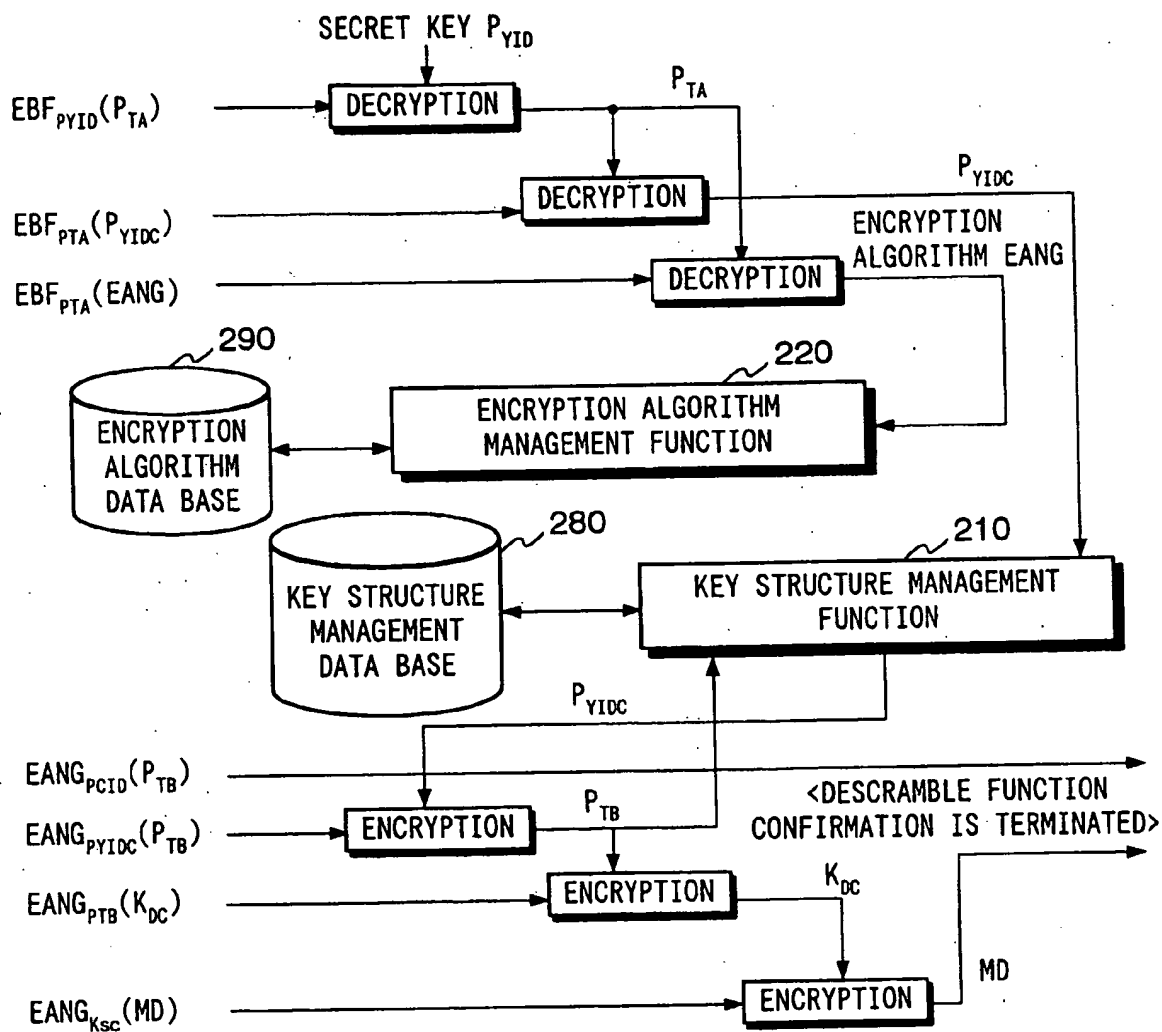
FIG. 8

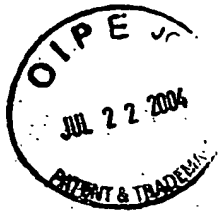




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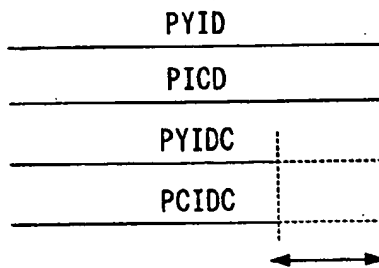
FIG. 9





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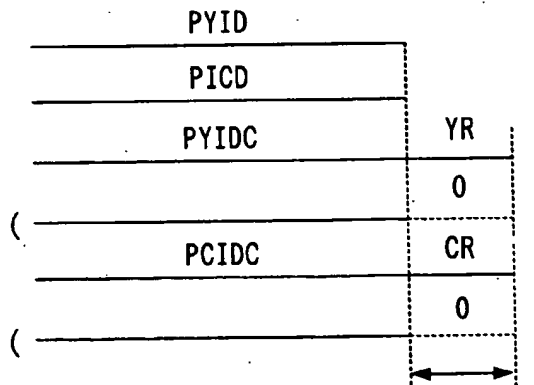
FIG. 10A



KEY LENGTH TO BE DELETED

CASE WHERE THE KEY LENGTH IS SHORTENED

FIG. 10B



KEY LENGTH TO BE ADDED

CASE WHERE THE KEY LENGTH IS PROLONGED

FIG. 11

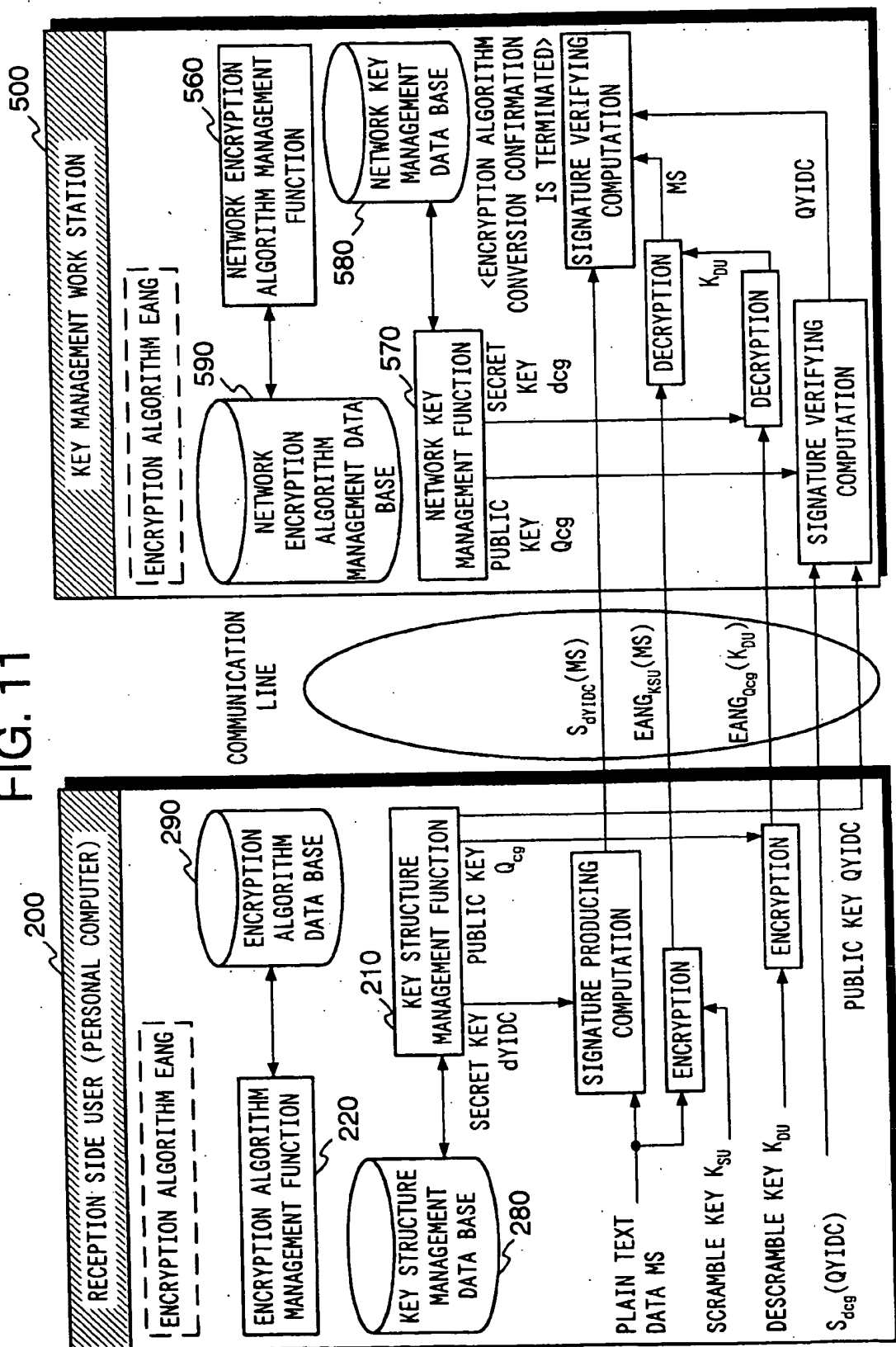


FIG. 12

(CRYPTOGRAPHIC COMMUNICATION BY PUBLIC KEY CIPHER)

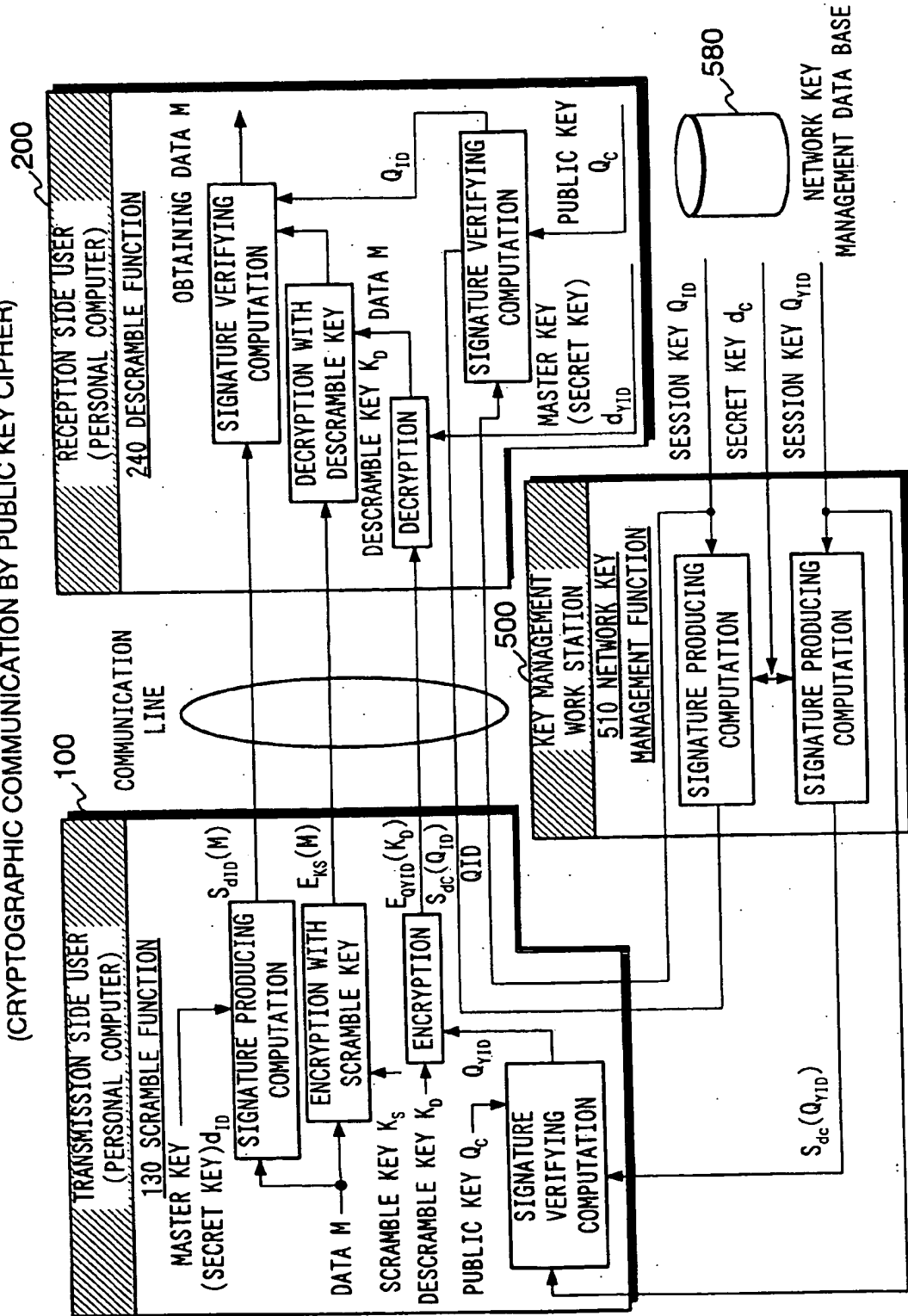


FIG. 13

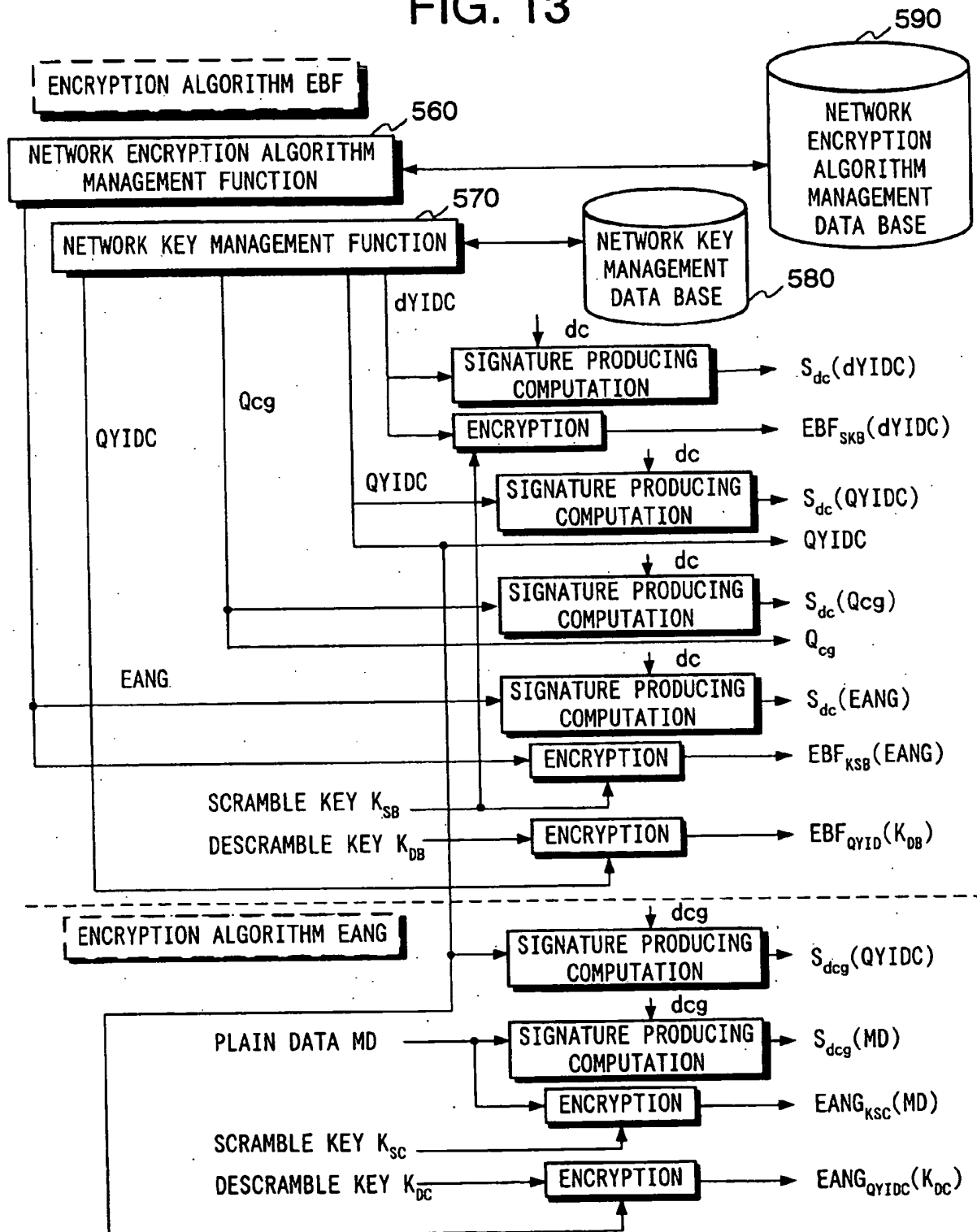
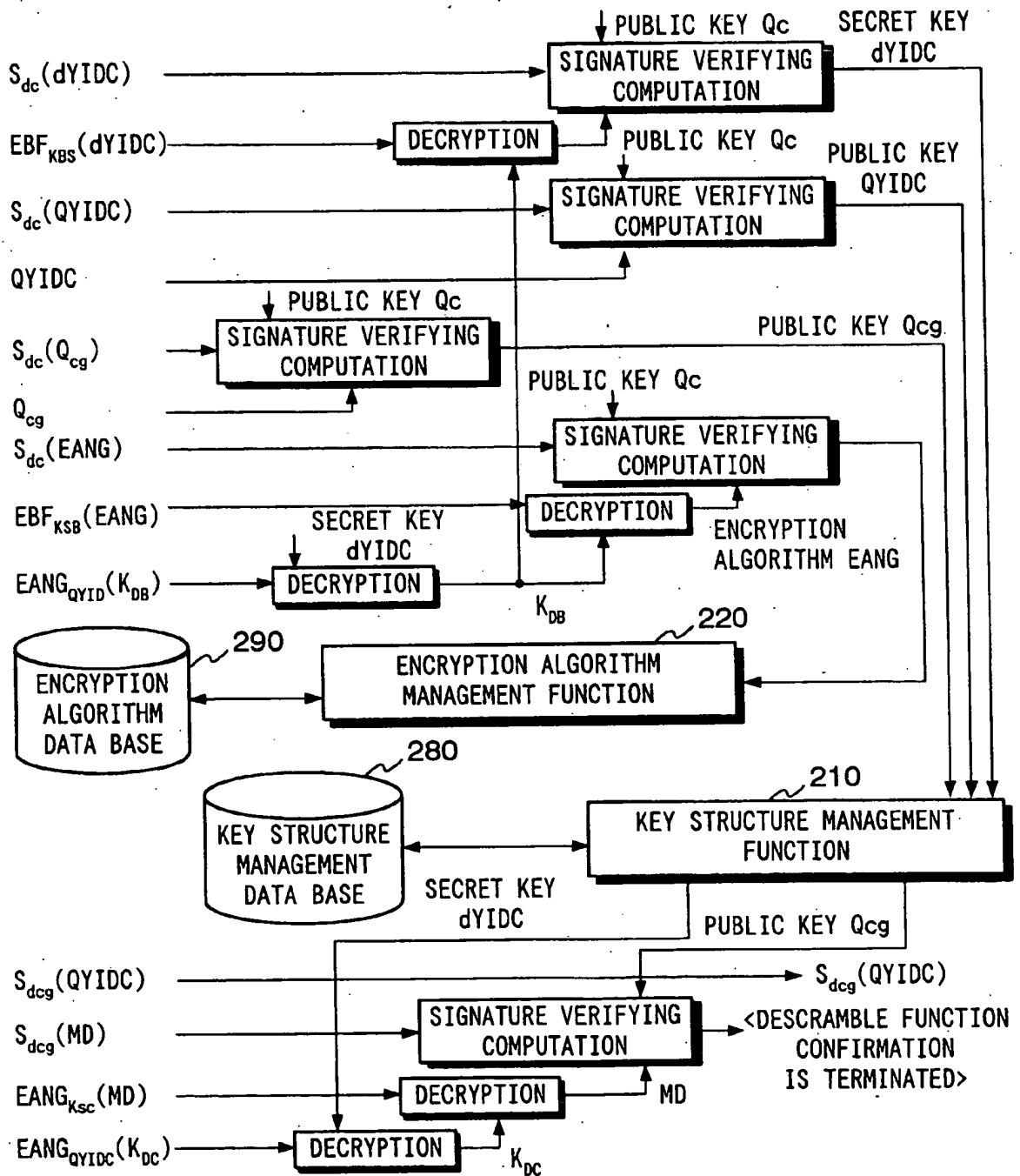


FIG. 14





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FIG. 15

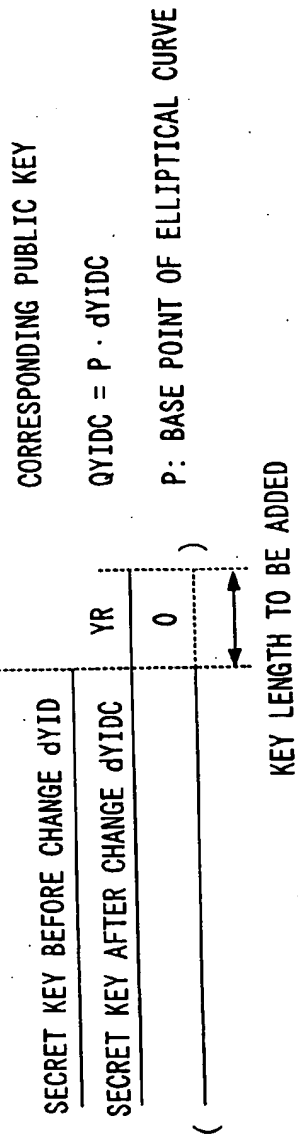


FIG. 16

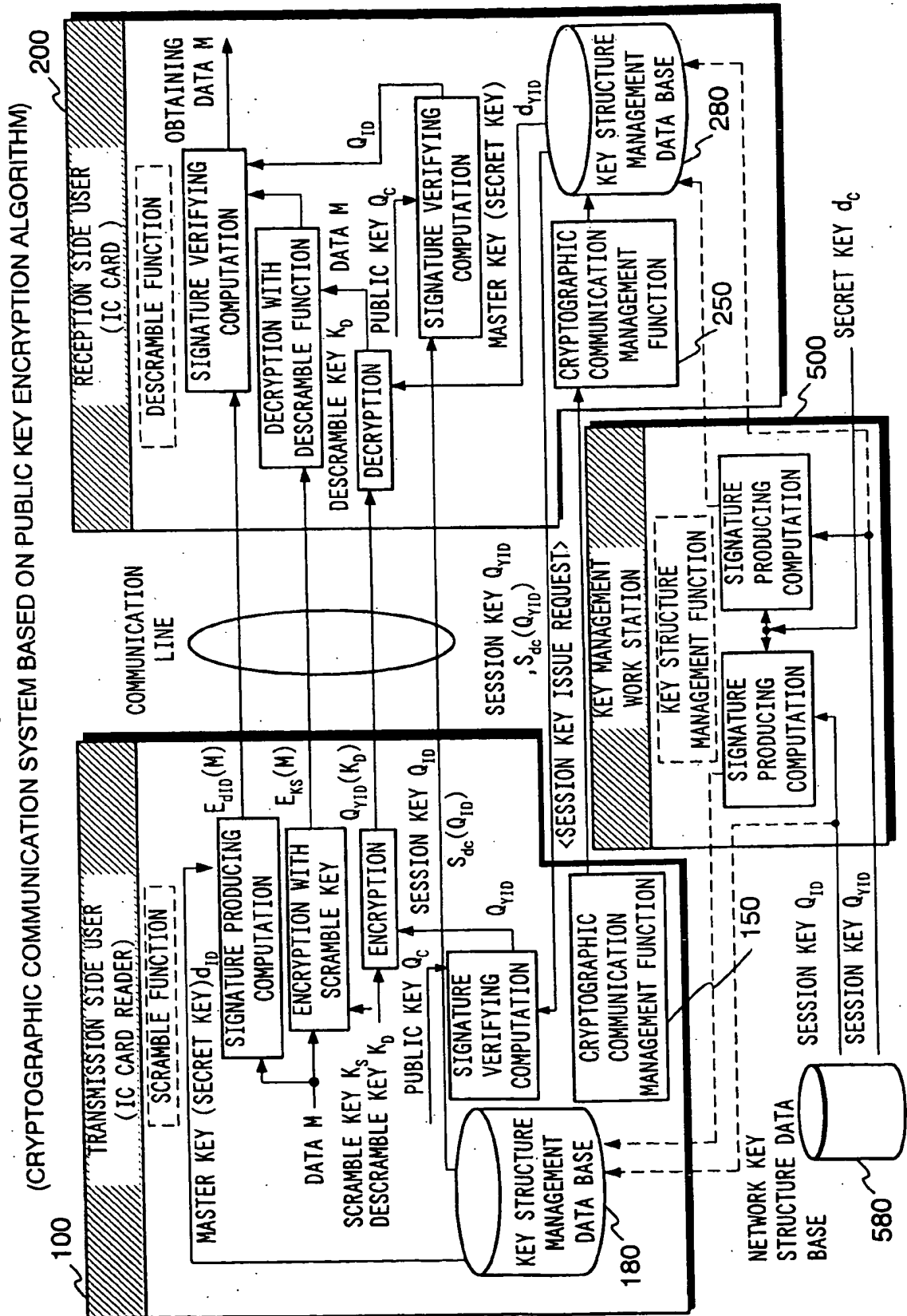


FIG. 17 (ALGORITHM CONVERSION OF PORTABLE INFORMATION PROCESSING UNIT)

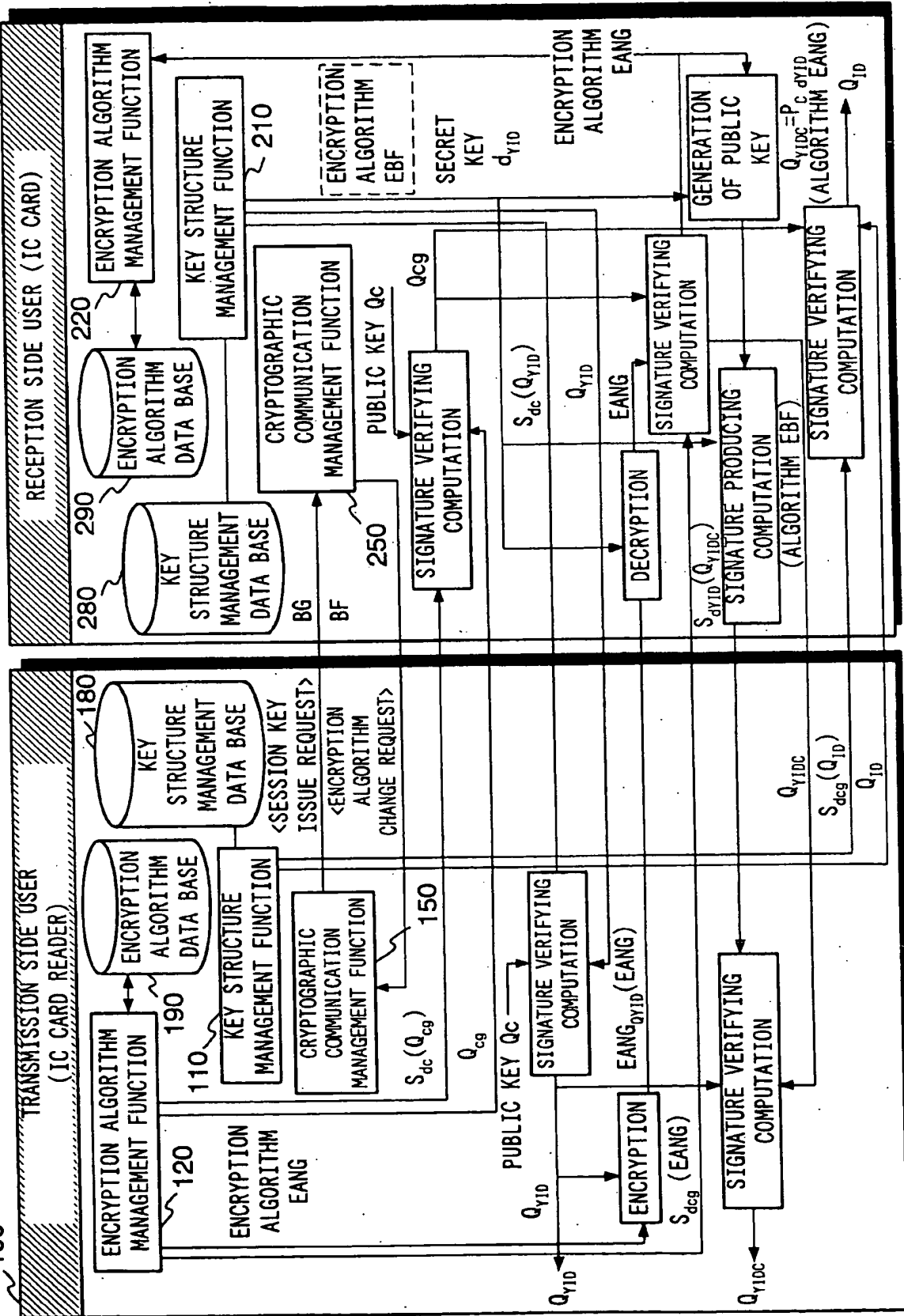


FIG. 18

ALGORITHM CONVERSION OF PORTABLE INFORMATION PROCESSING UNIT)

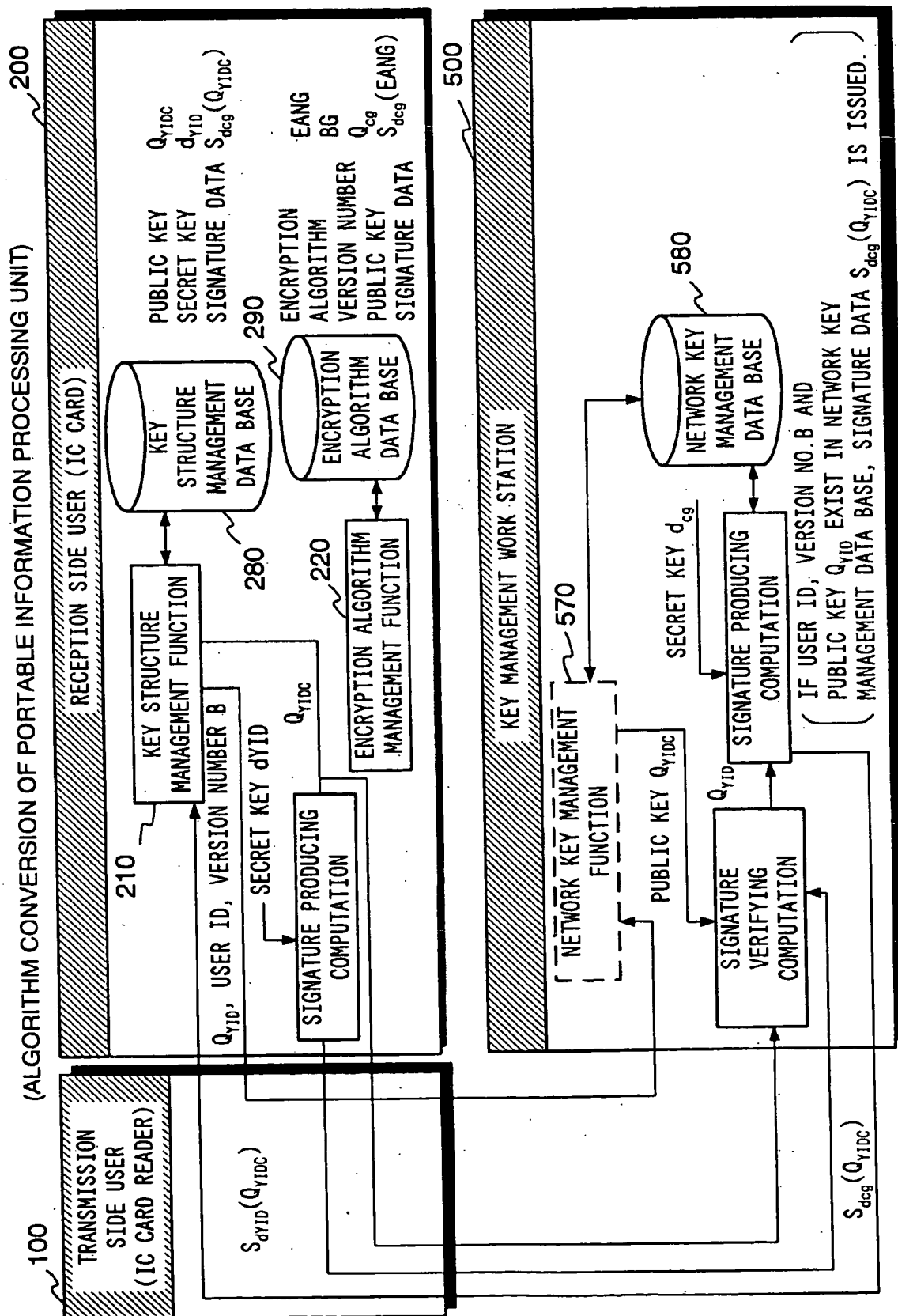


FIG. 19

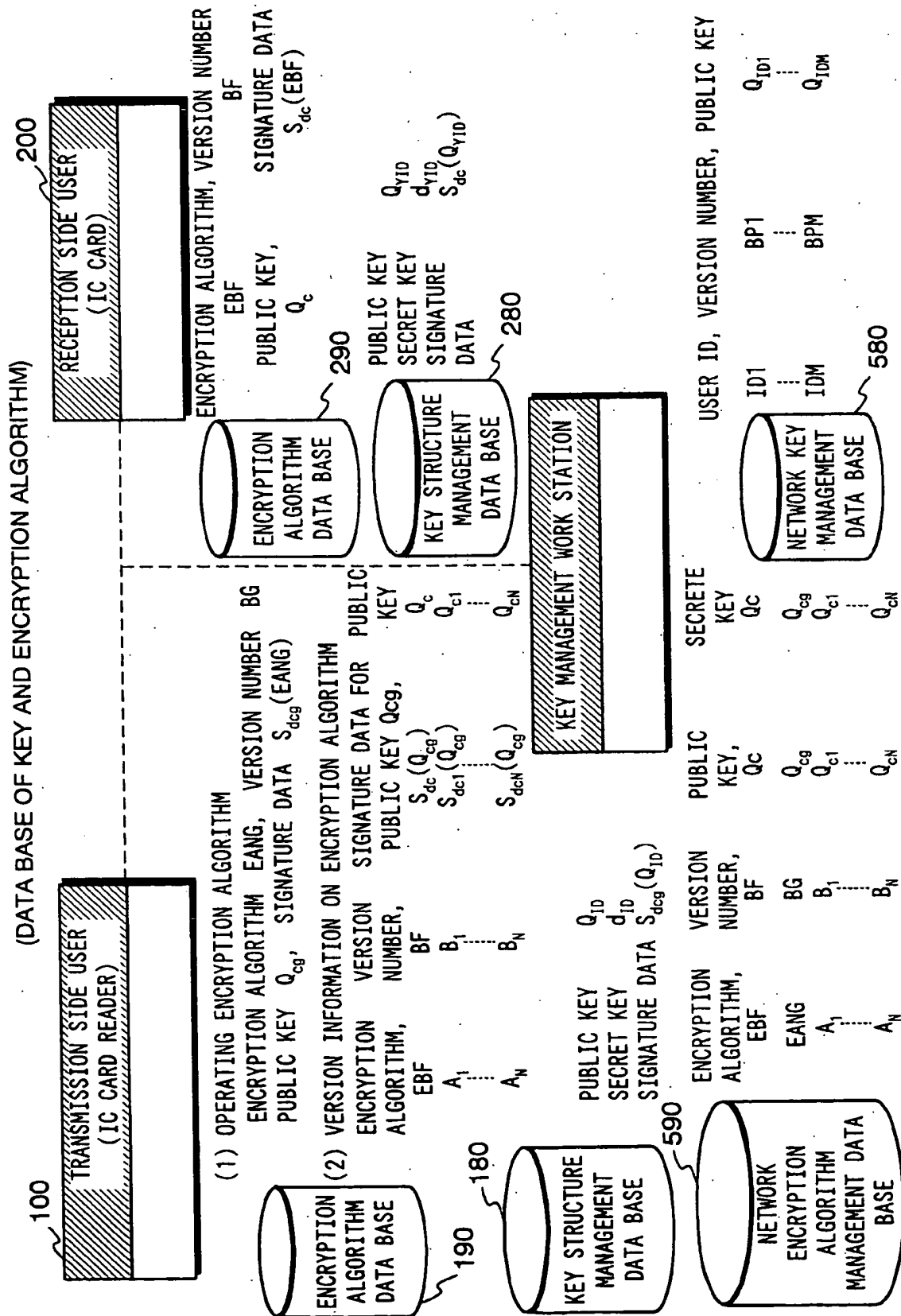


FIG. 20

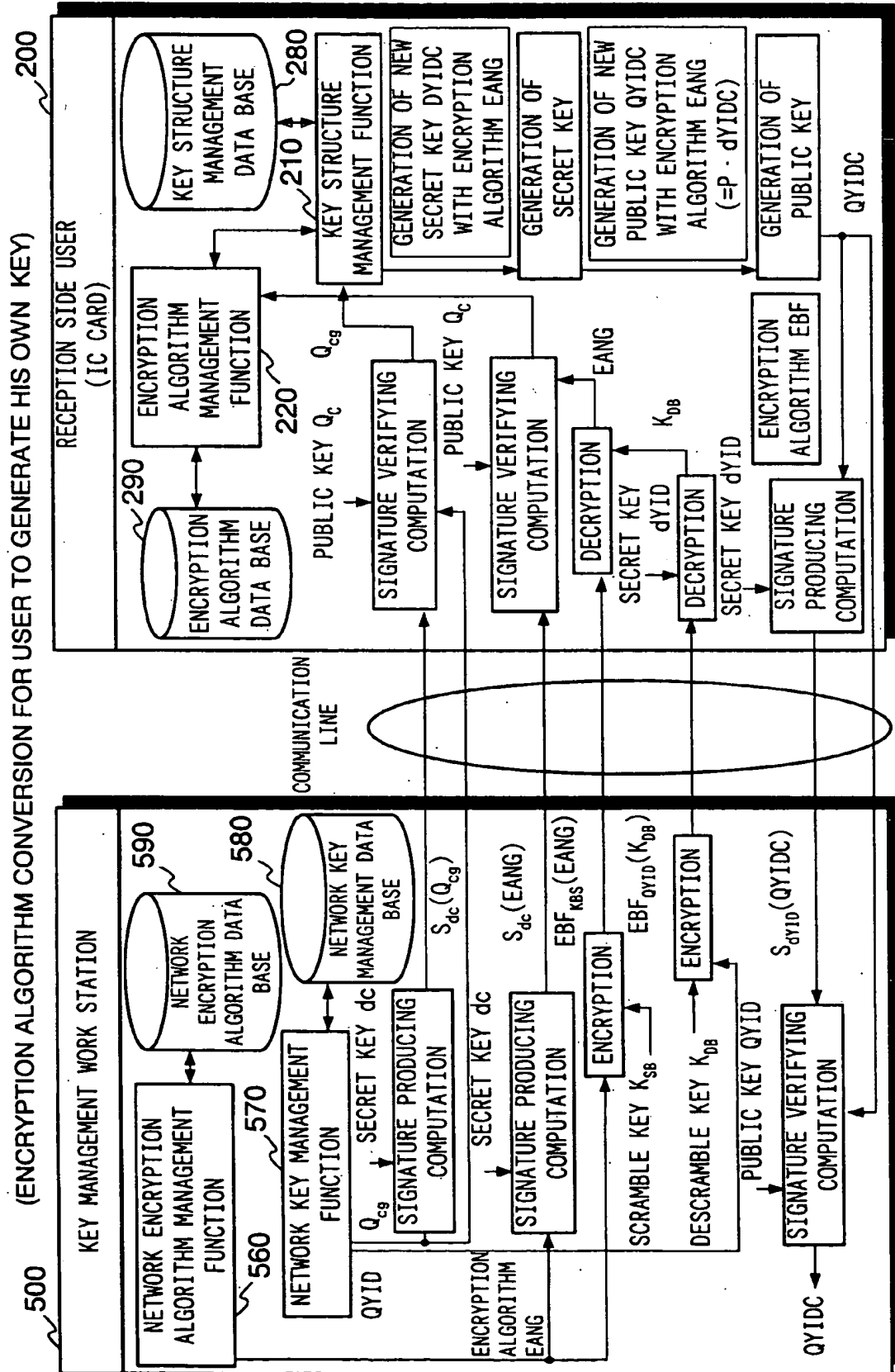
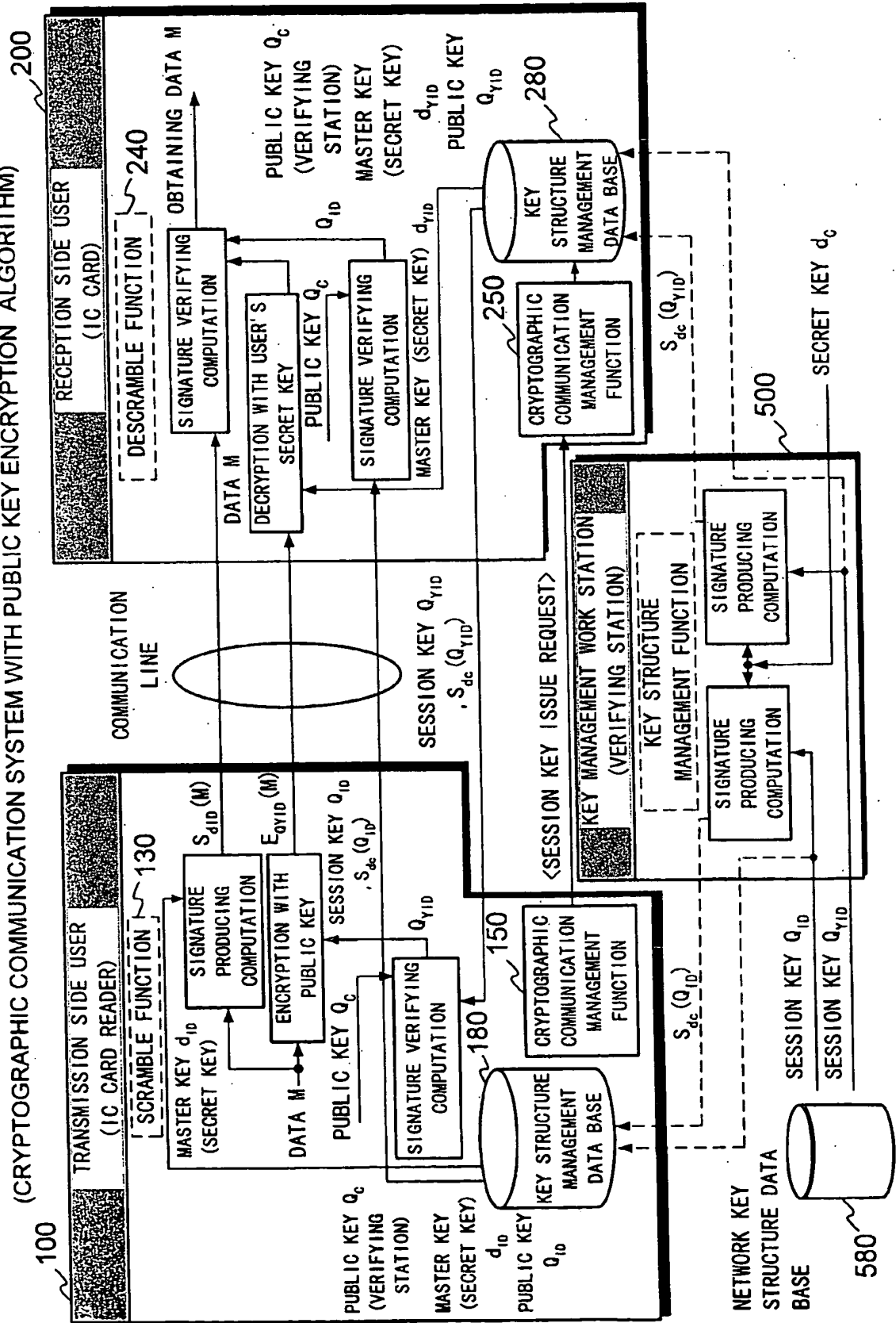


FIG. 21

(CRYPTOGRAPHIC COMMUNICATION SYSTEM WITH PUBLIC KEY ENCRYPTION ALGORITHM)





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FIG. 22

(NETWORK COMMUNICATION SYSTEM
IN WHICH A PLURALITY OF ENCRYPTION ALGORITHMS EXIST)

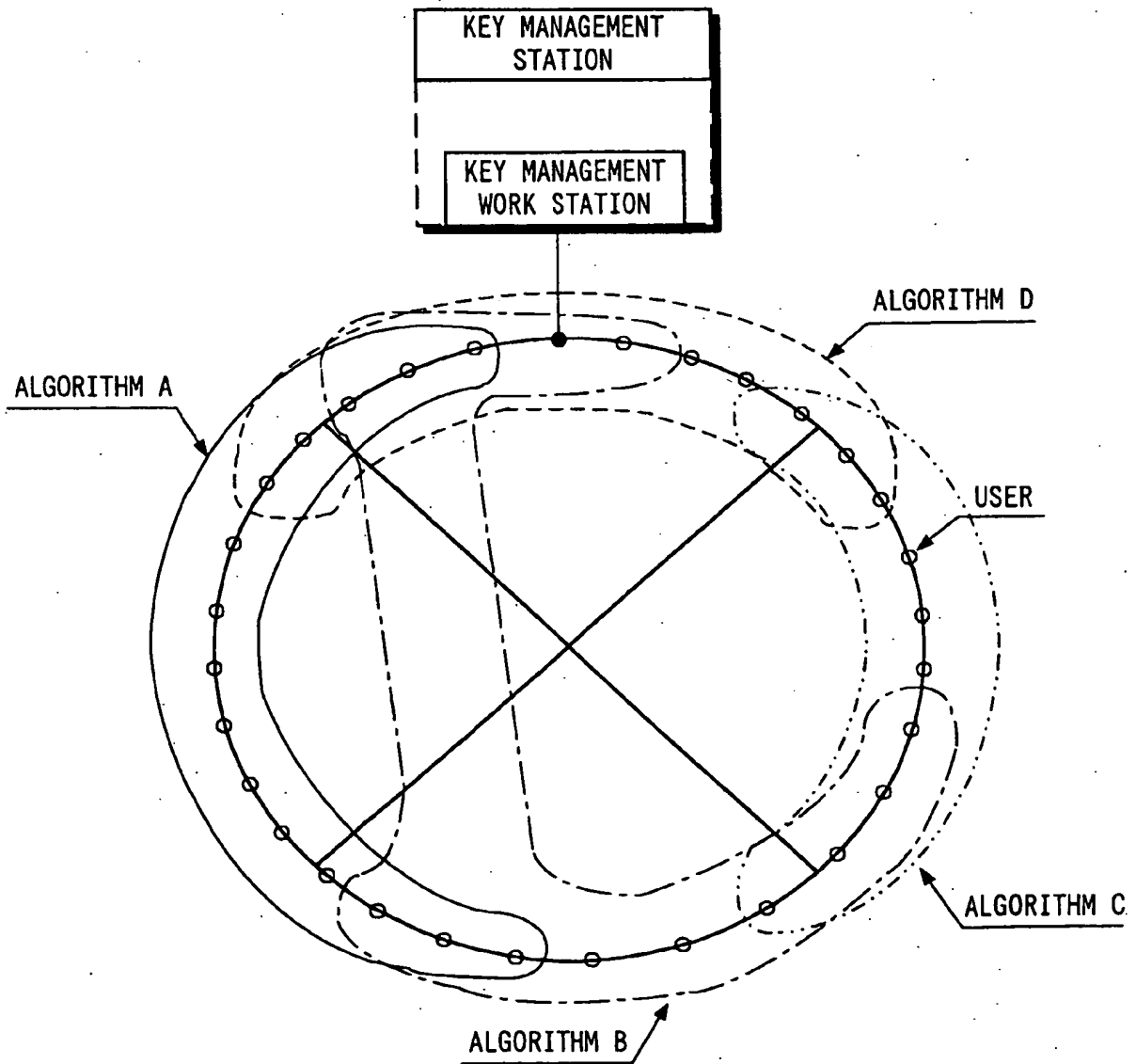


FIG. 23

(KEY RECOVERY FUNCTION (ENCRYPTION))

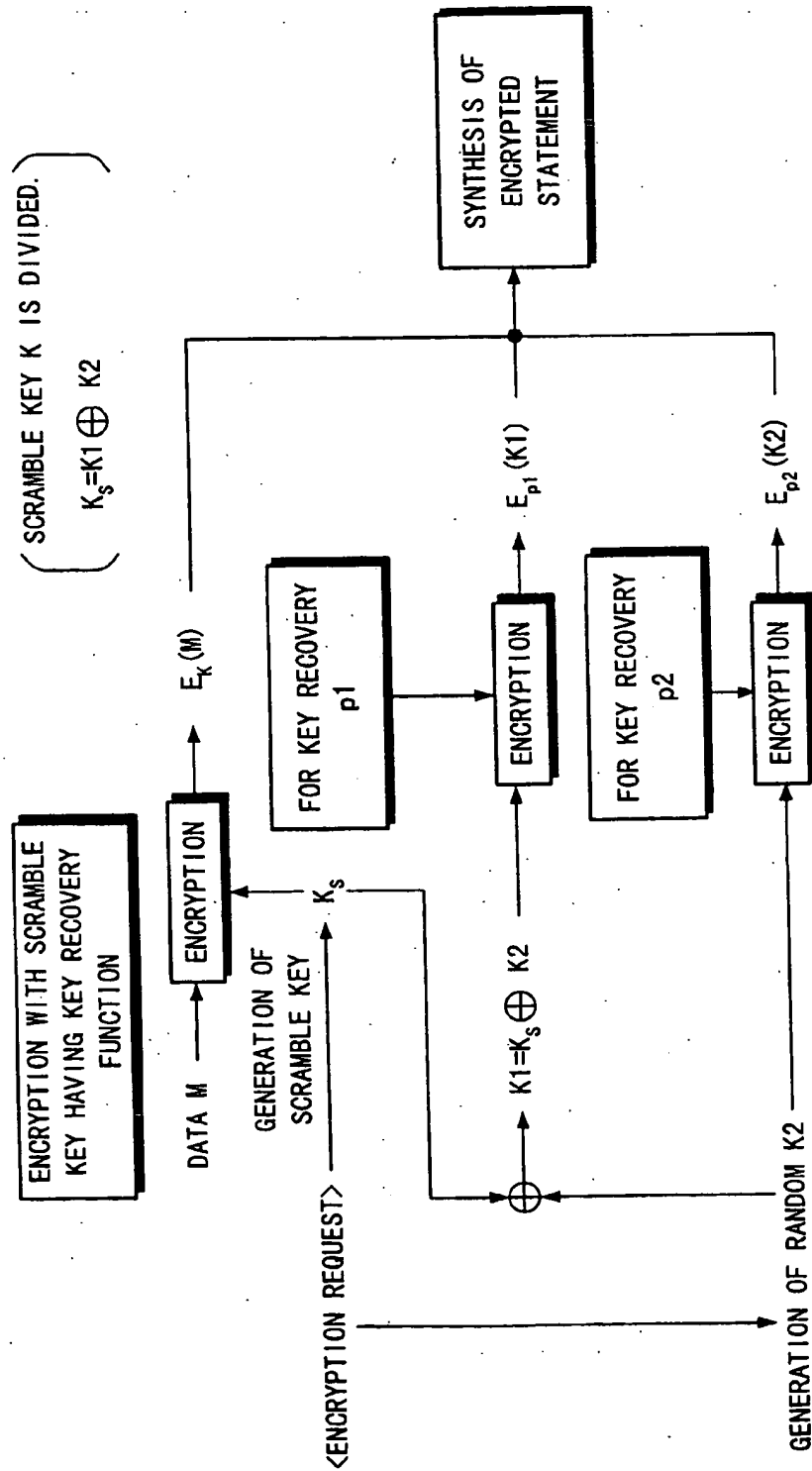


FIG. 24

(KEY RECOVERY FUNCTION (DECRYPTION))

